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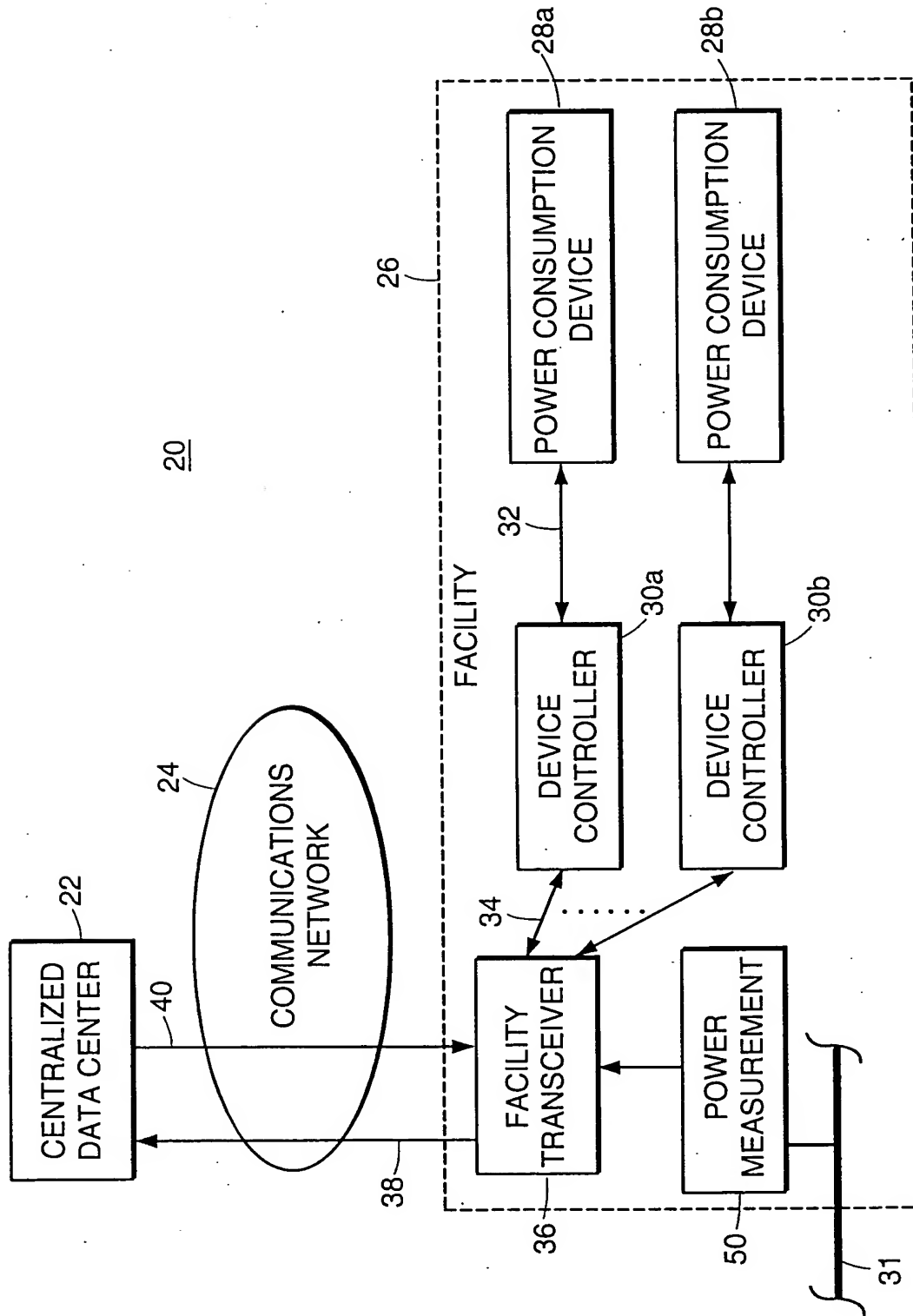


FIG. 1

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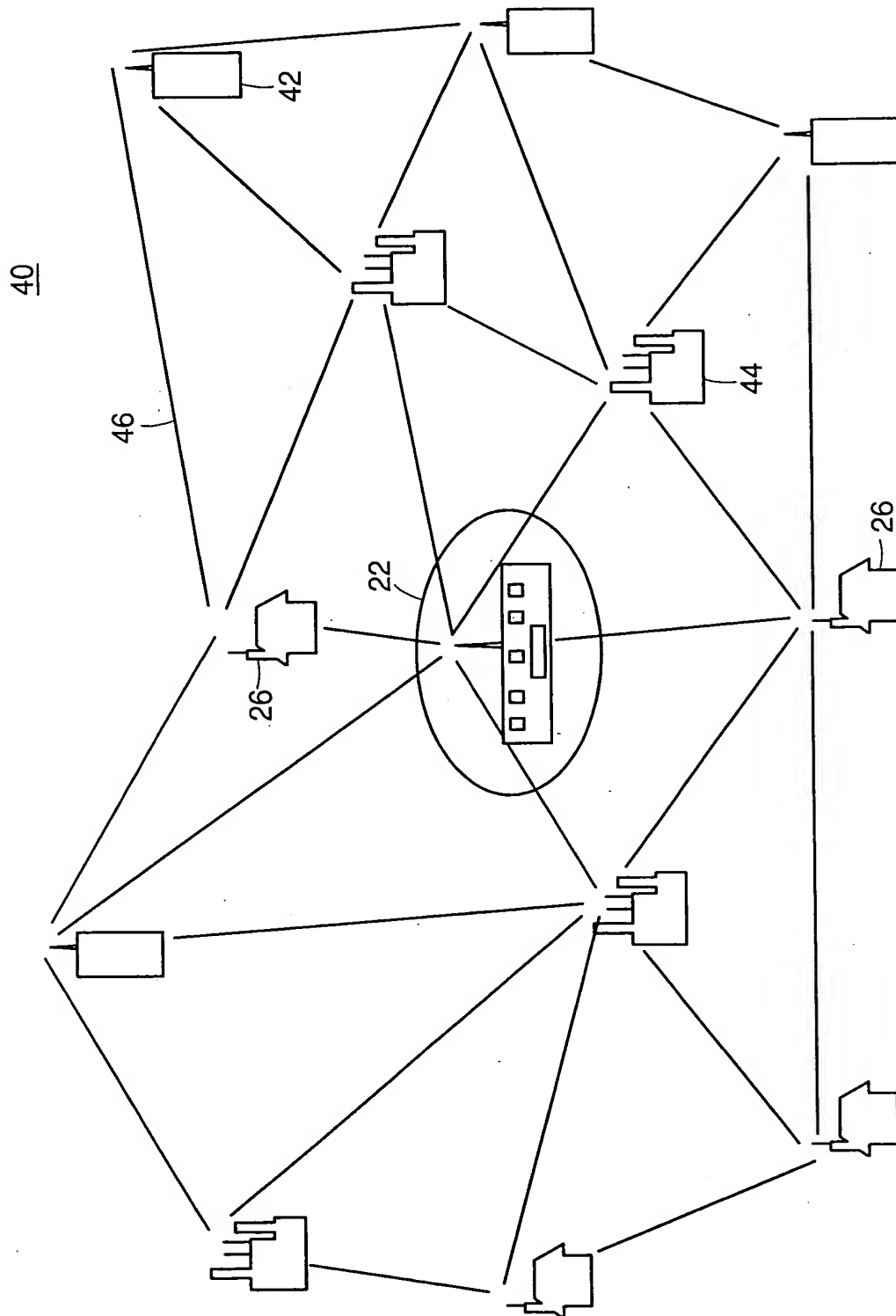


FIG. 2

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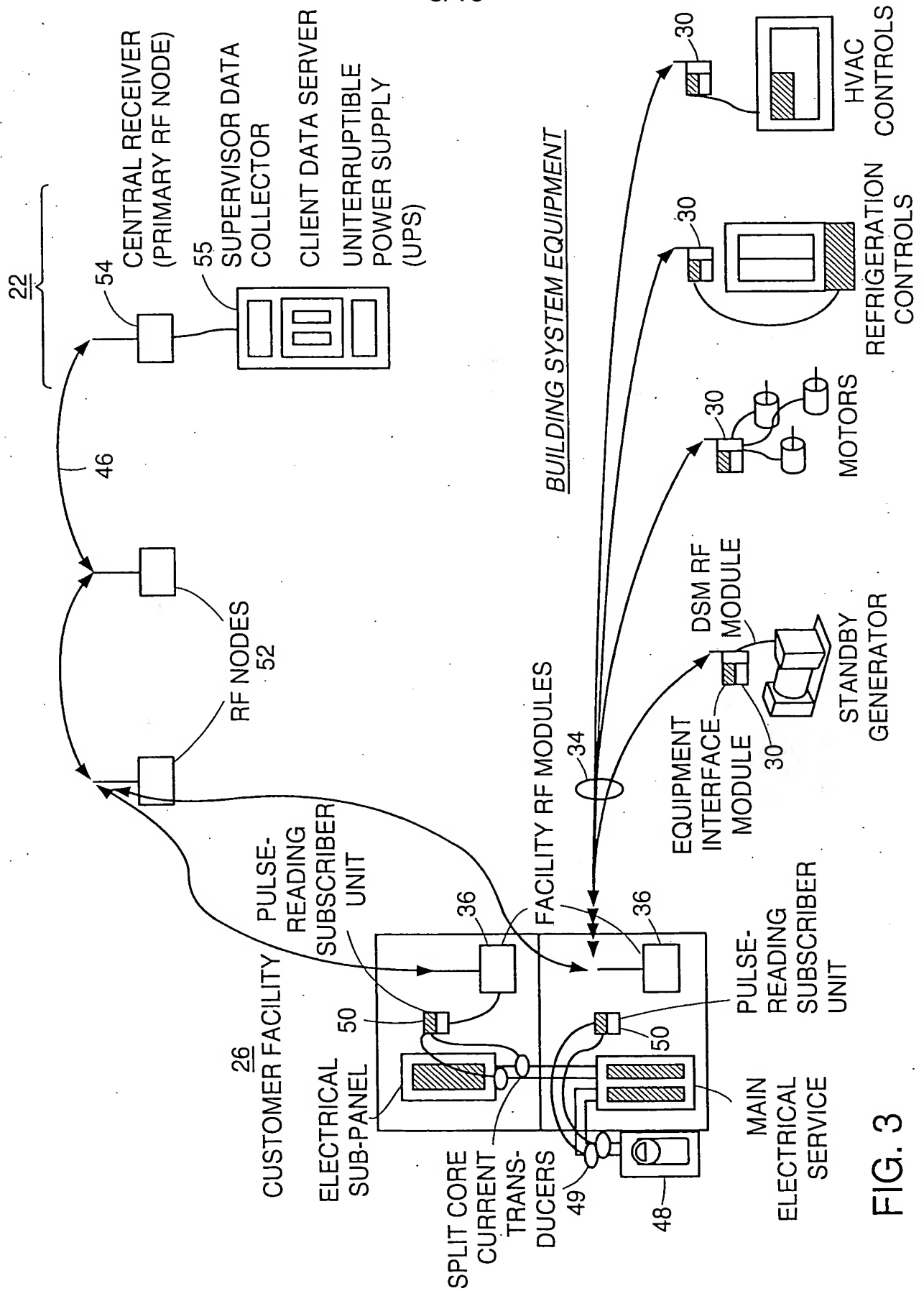


FIG. 3

55

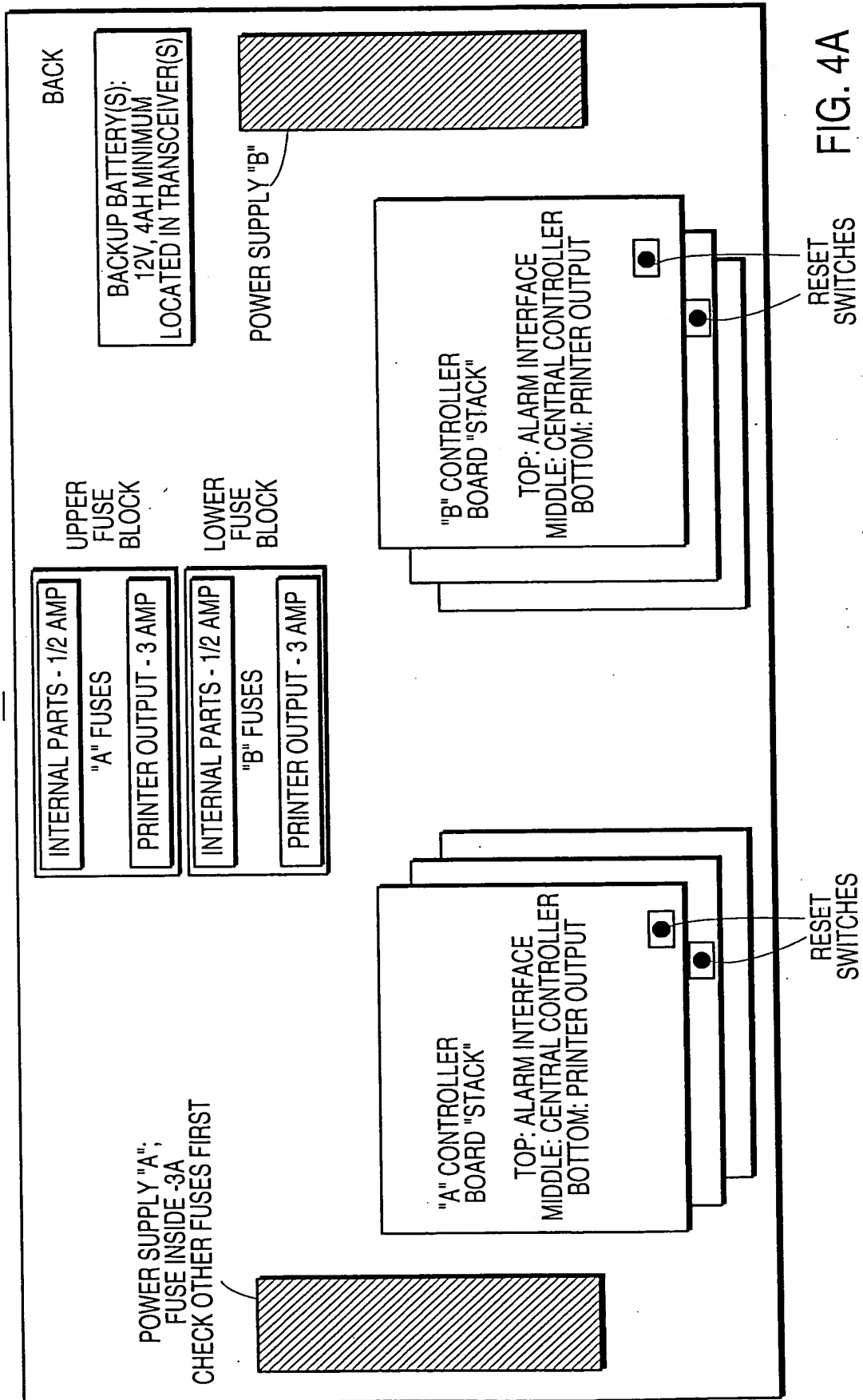
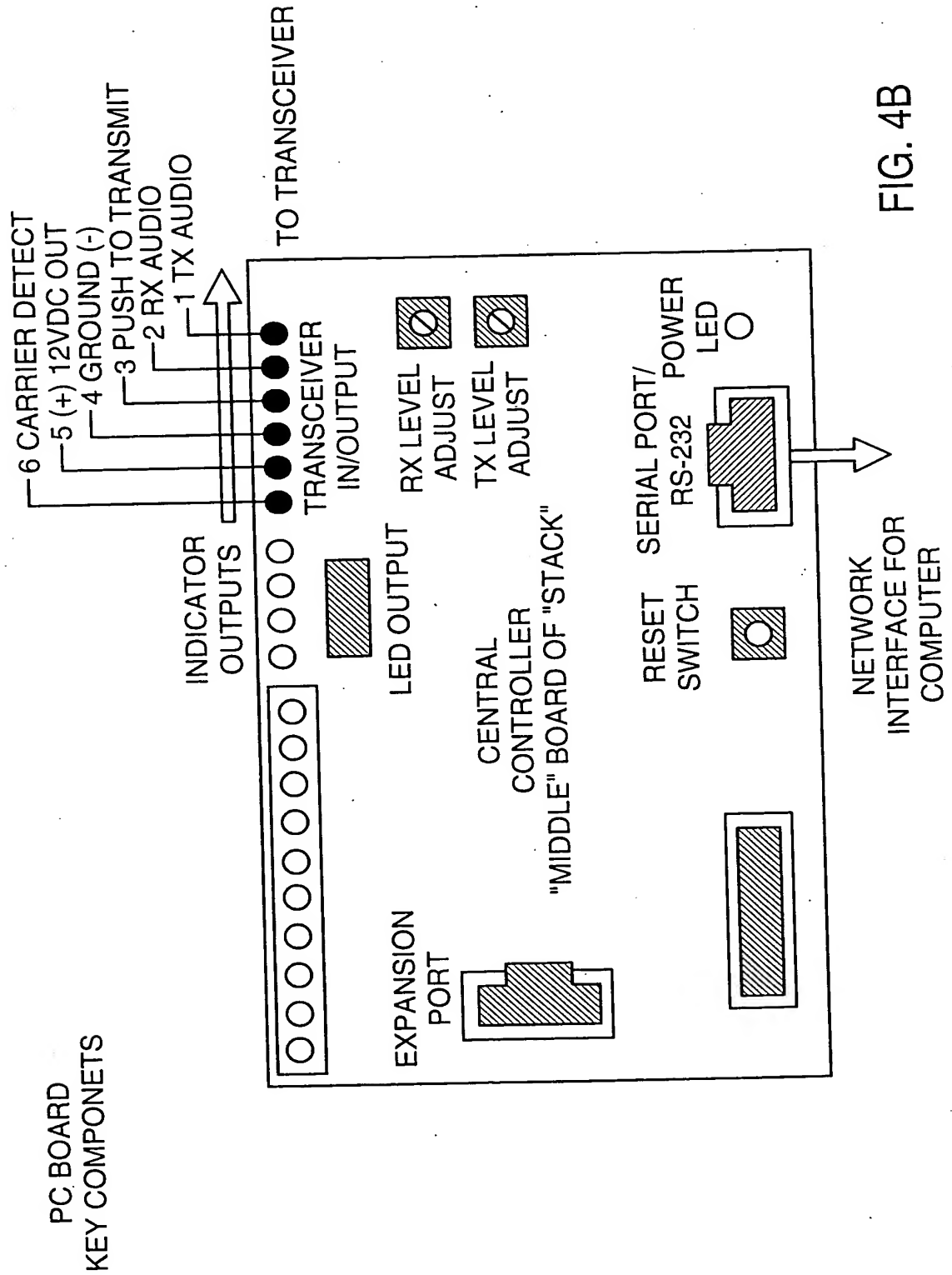


FIG. 4A

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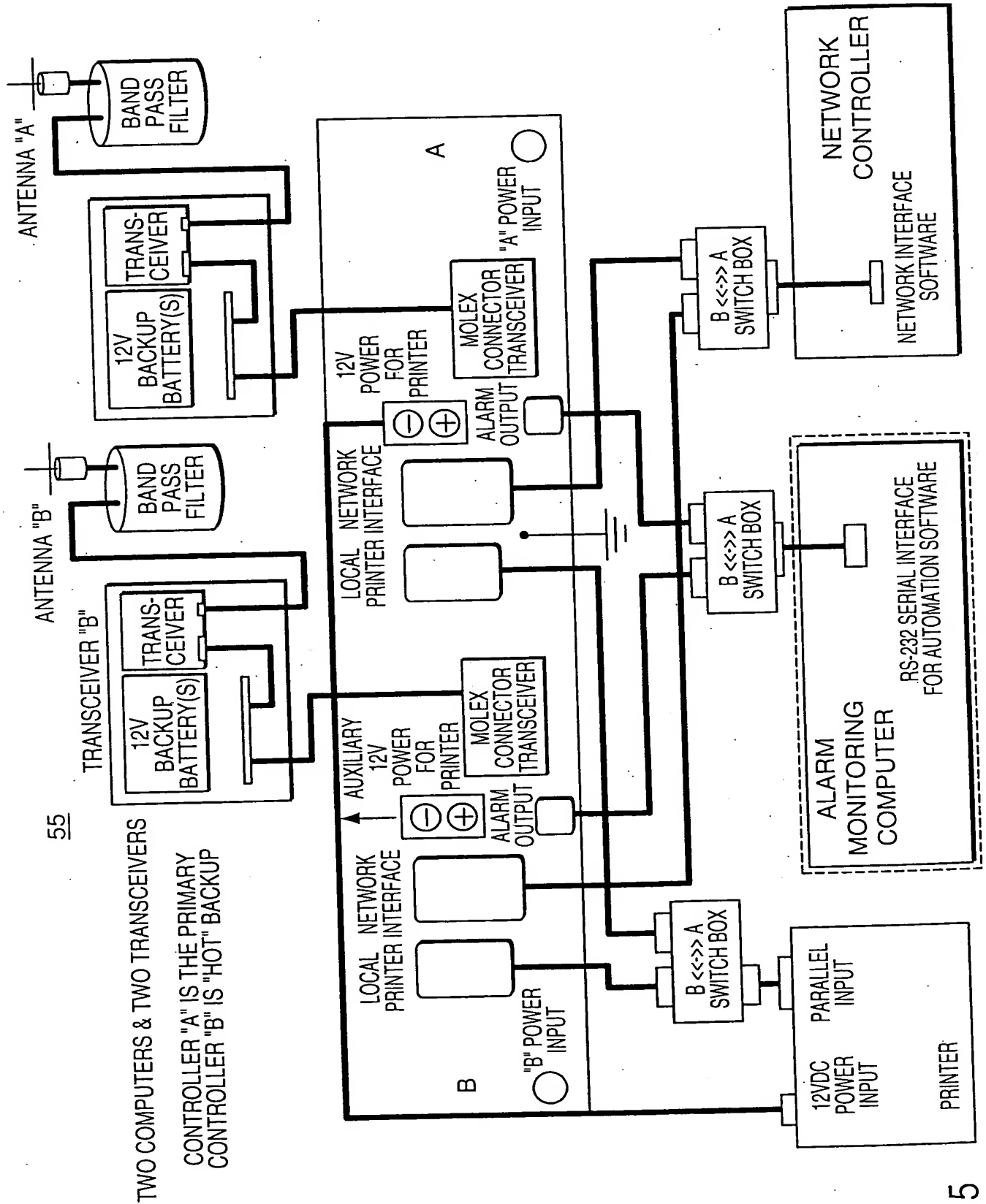


FIG. 5

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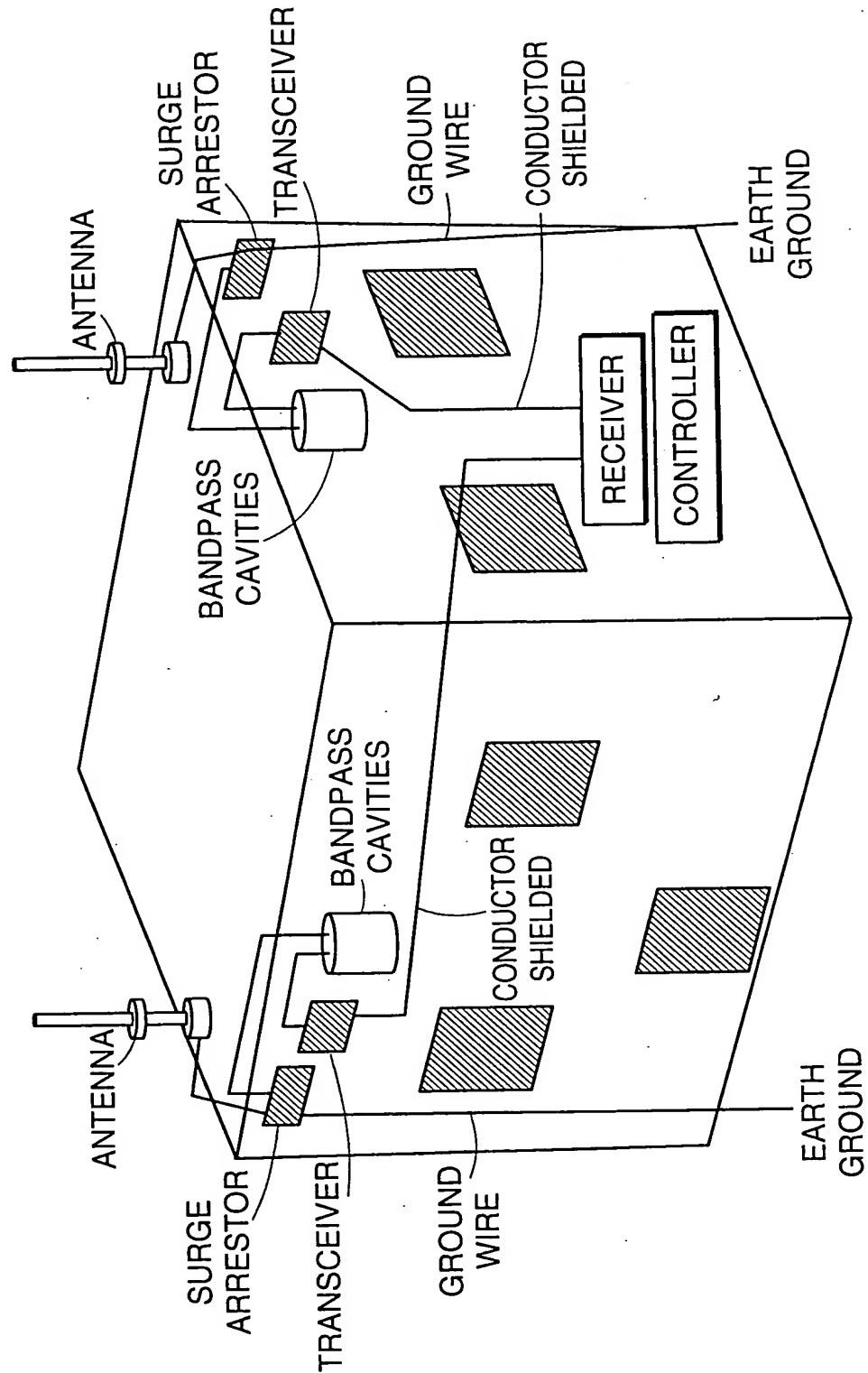
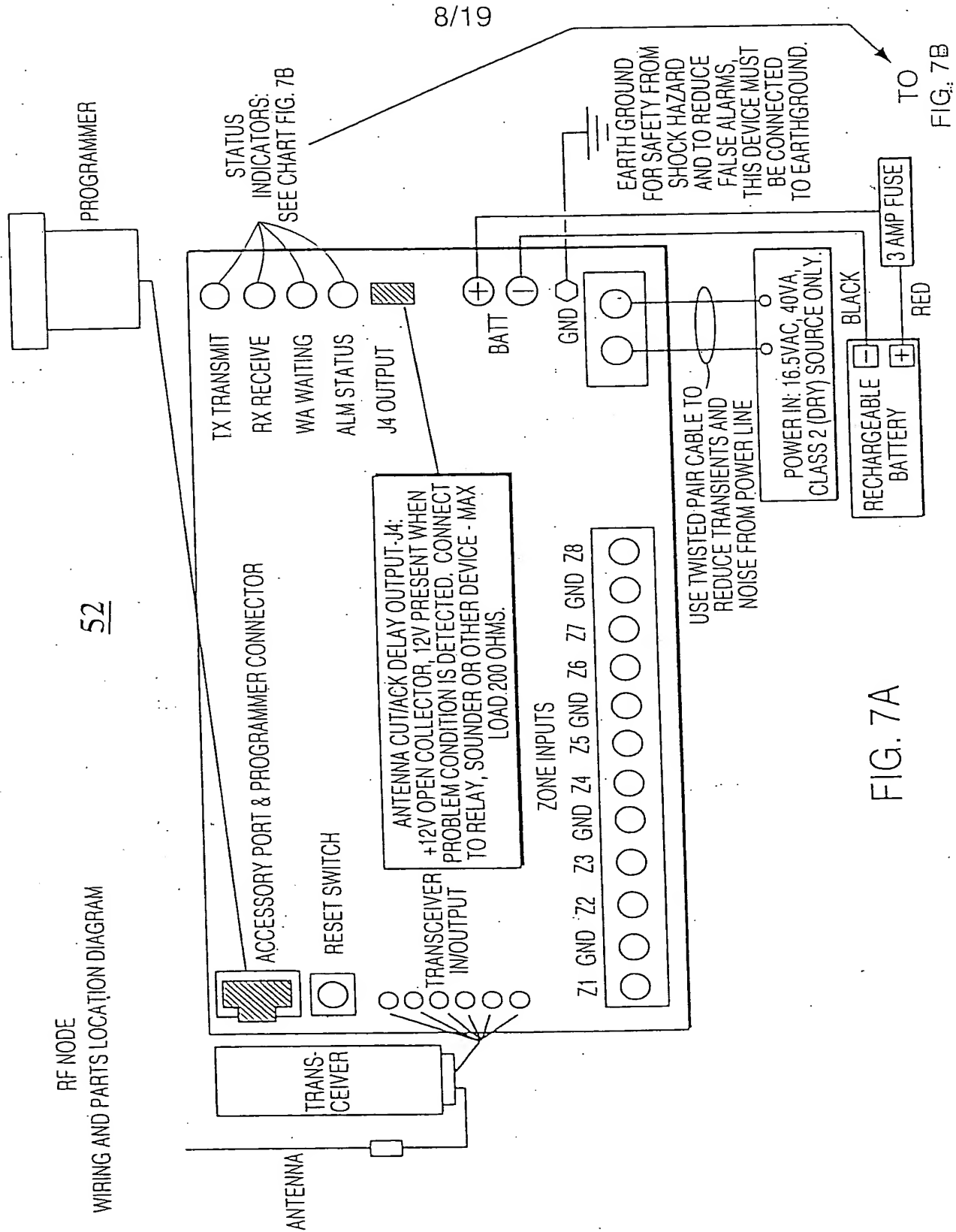
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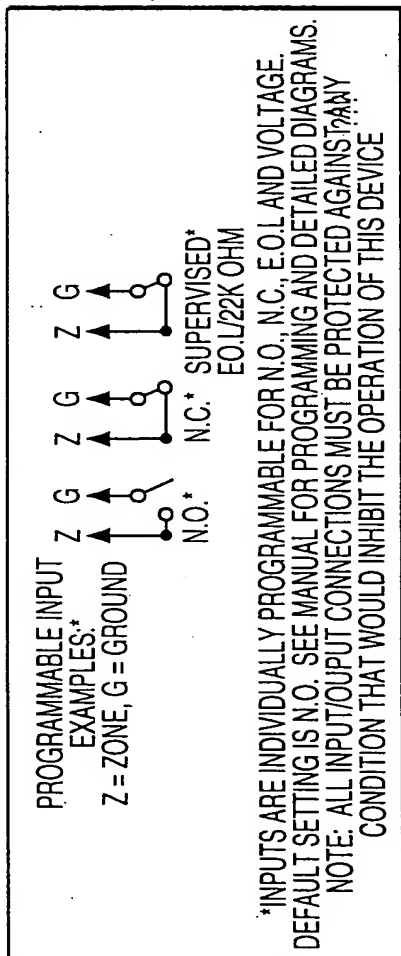
FIG. 6

RF NODE
WIRING AND PARTS LOCATION DIAGRAM

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FROM
FIG. 7A

MODEL RF NODE
ELECTRICAL RATING: 12VDC, 175ma STANDBY, 800ma TRANSMIT
ONBOARD FUSE: SELF RESETTNG / NOT USER SERVICEABLE
IN-LINE BATTERY FUSE: 3 AMPERE
RECHARGEABLE BATTERY REQ: 12V, 4 TO 7 AH
LOW BATTERY CONDITION IS REPORTED TO THE CENTRAL STATION.

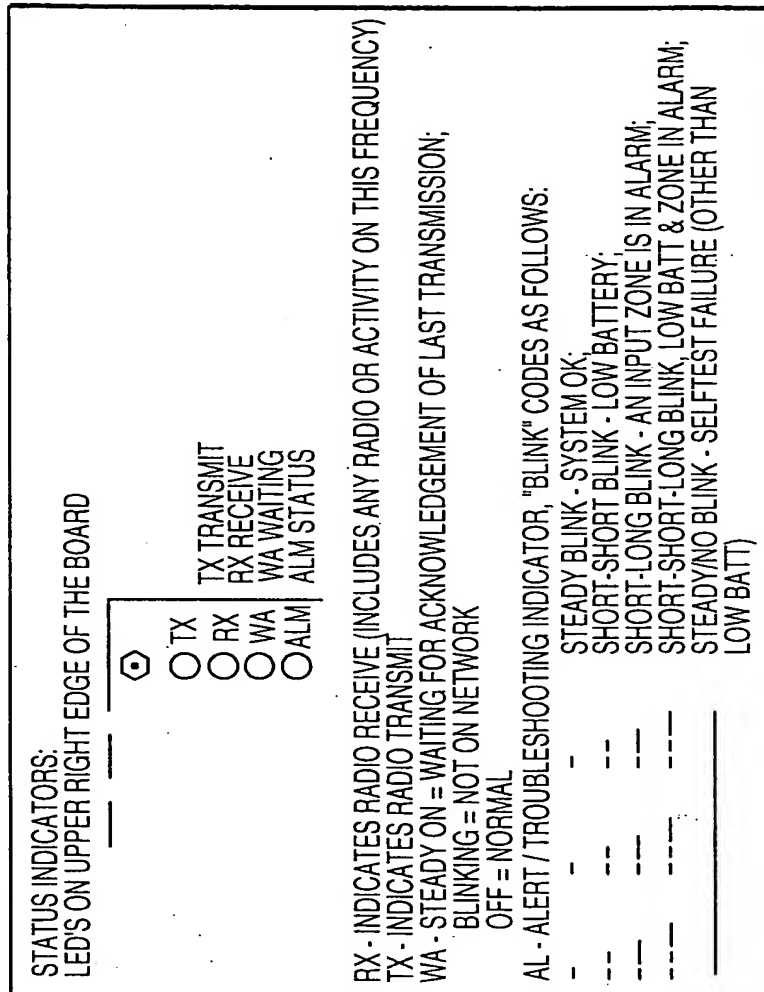
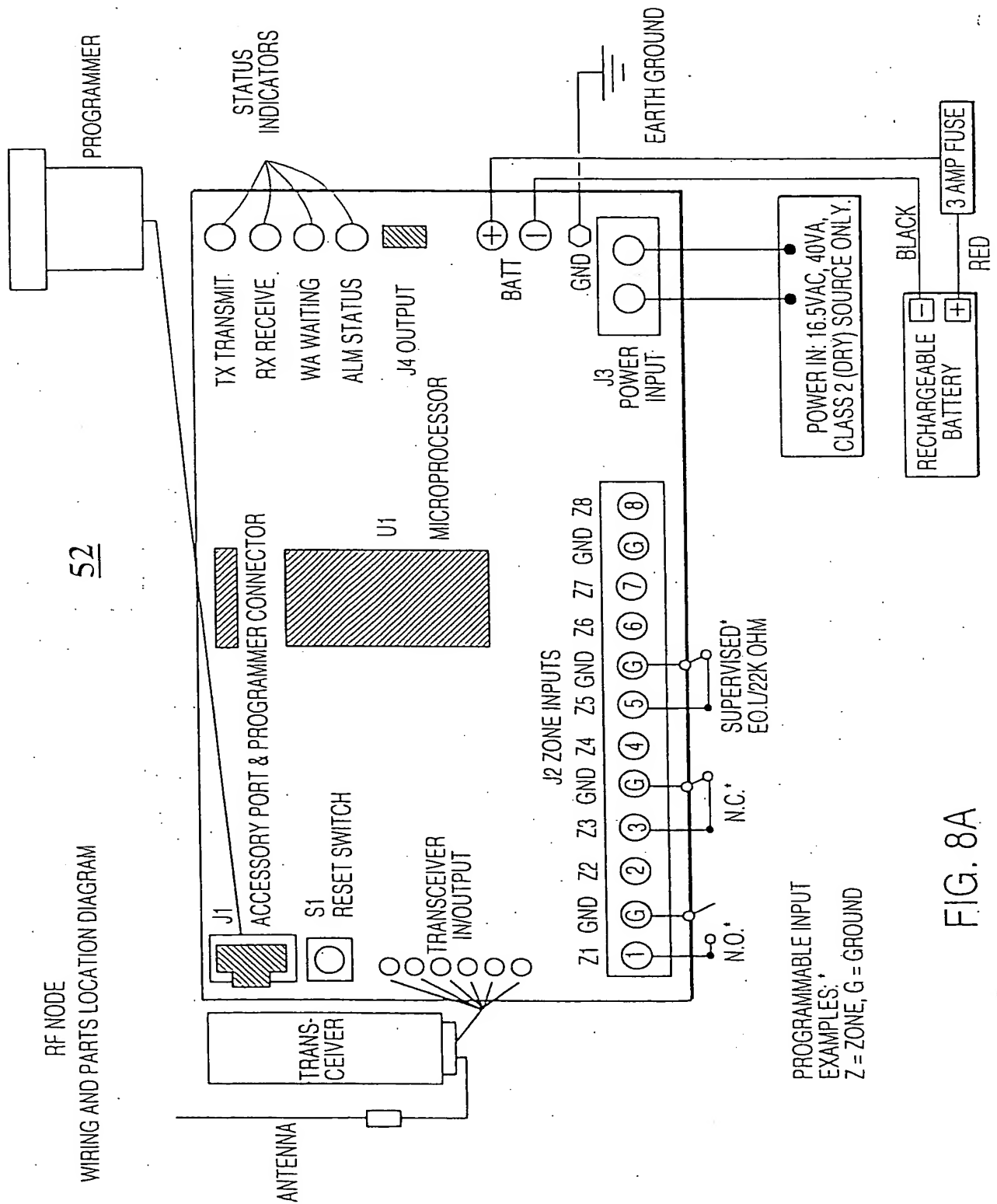


FIG. 7B

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*8 INPUTS ARE INDIVIDUALLY PROGRAMMABLE FOR N.O., N.C., E.O.L. AND VOLTAGE (4-30VOLTS).

DEFAULT SETTING IS E.O.L. SEE MANUAL FOR PROGRAMMING AND DETAILED DIAGRAMS.

NOTE: ALL INPUT/OUTPUT CONNECTIONS MUST BE PROTECTED AGAINST ANY CONDITION THAT WOULD

INHIBIT THE OPERATION OF THIS DEVICE.

*DEFAULT SETTING IS FOR SUPERVISED / E.O.L. ZONE INPUTS. RESISTORS MUST BE INSTALLED ON ALL ZONE INPUTS, EVEN WHEN NOT USED.

INPUT / OUTPUT CONNECTIONS

J1 PROGRAMMER / ACCESSORY PORT - CONNECTS TO PROGRAMMER.

J2 ZONE INPUTS TERMINAL BLOCK: GROUND (-): 8 ZONE INPUTS (DEFAULT = SUPERVISED END OF LINE RESISTOR (E.O.L.)

J3 POWER INPUT TERMINAL BLOCK - 16.5 VAC

J4 ANTENNA CUT / ACKNOWLEDGEMENT DELAY OUTPUT - SHOULD THE UNIT NOT RECEIVE AN ACKNOWLEDGEMENT TO ANY MESSAGE FOR A TIME LONGER THAN THE PROGRAMMED PERIOD, THE OUTPUT GENERATES 12 VOLTS BETWEEN THE PINS TO SIGNAL A PROBLEM. CONNECT TO A RELAY, SOUNDER OR ALTERNATE COMMUNICATOR TO ANNUNCIATE THE PROBLEM (200 OHMS MAX LOAD).

CONTROLS

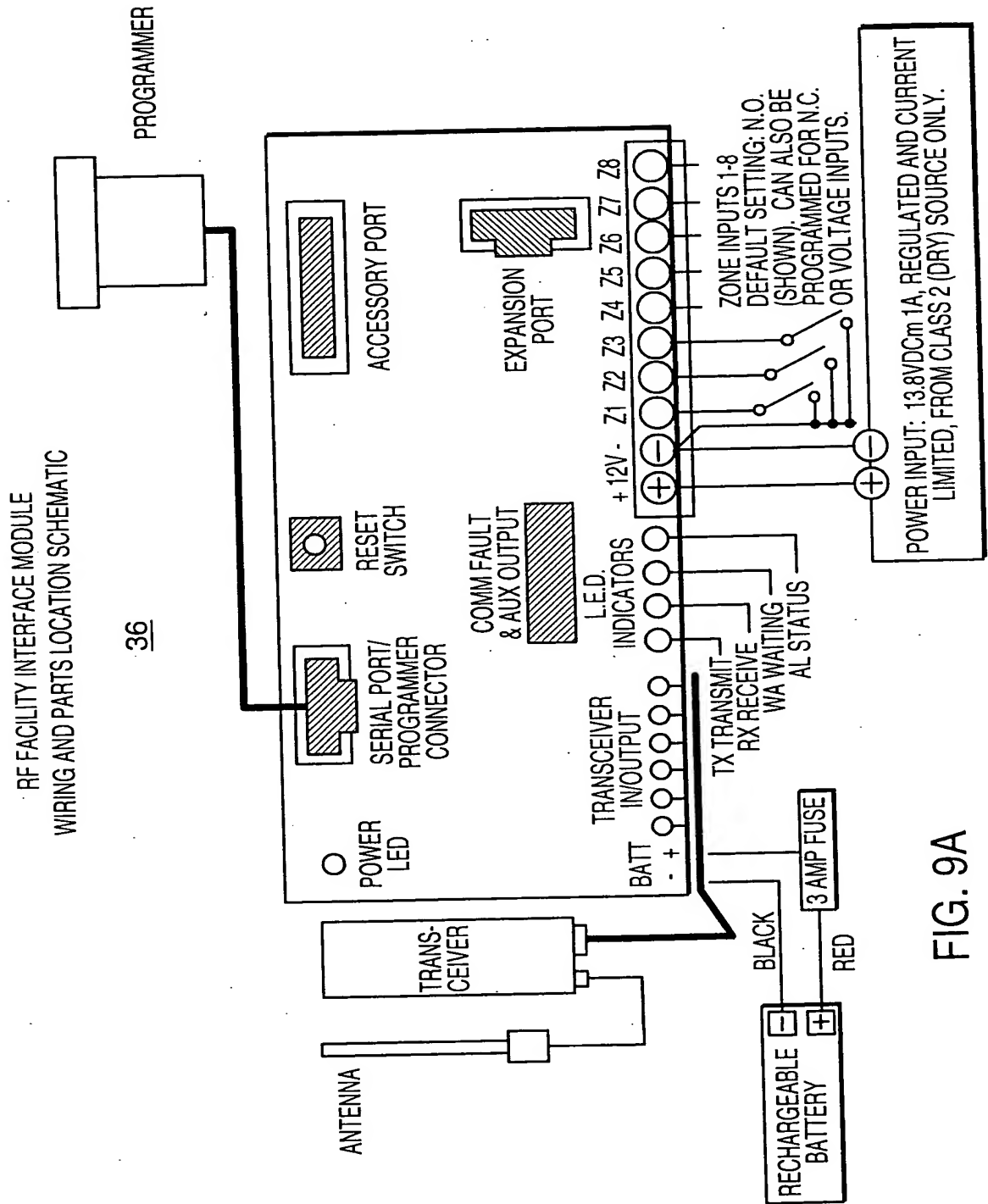
S1 RESET SWITCH - INITIALIZES CONTROLLER

UPGRADABLE INTEGRATED CIRCUIT

U1 MICROPROCESSOR, 40 PIN DIP; THIS CHIP IS MOUNTED IN A SOCKET, AND MAY BE REPLACED FOR UPGRADES OR SPECIAL APPLICATIONS.

FIG. 8B

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ELECTRICAL RATING: 13.8VDC, 80ma STANDBY, 1000ma TRANSMIT
 ONBOARD FUSE: SELF RESETTING
 IN-LINE BATTERY FUSE: 3 AMPERE
 RECHARGEABLE BATTERY REQ: 12V. 4 TO 7 AH
 LOW BATTERY CONDITION IS REPORTED TO THE CENTRAL STATION.

STATUS INDICATORS

RX, TX - INDICATE RADIO RECIEVE (RX) OR TRANSMIT (TX)
 WA - STEADY ON = WAITING FOR ACKNOWLEDGEMENT OF LAST TRANSMISSION;
 BLINKING = NOT ON NETWORK
 STEADY OFF = NORMAL

AL - ALERT / TROUBLESHOOTING INDICATOR, "BLINK" CODES AS FOLLOWS:

-	-	STEADY BLINK - SYSTEM OK;
--	--	SHORT-SHORT BLINK - LOW BATTERY;
---	---	SHORT-LONG BLINK - AN INPUT ZONE IS IN ALARM;
----	----	SHORT-SHORT-LONG BLINK, LOW BATT AND ZONE IN ALARM;
STEADY	---	NO BLINK - SELFTEST FAILURE (OTHER THAN LOW BATT)

PWR - INDICATES UNIT HAS POWER

FIG. 9B

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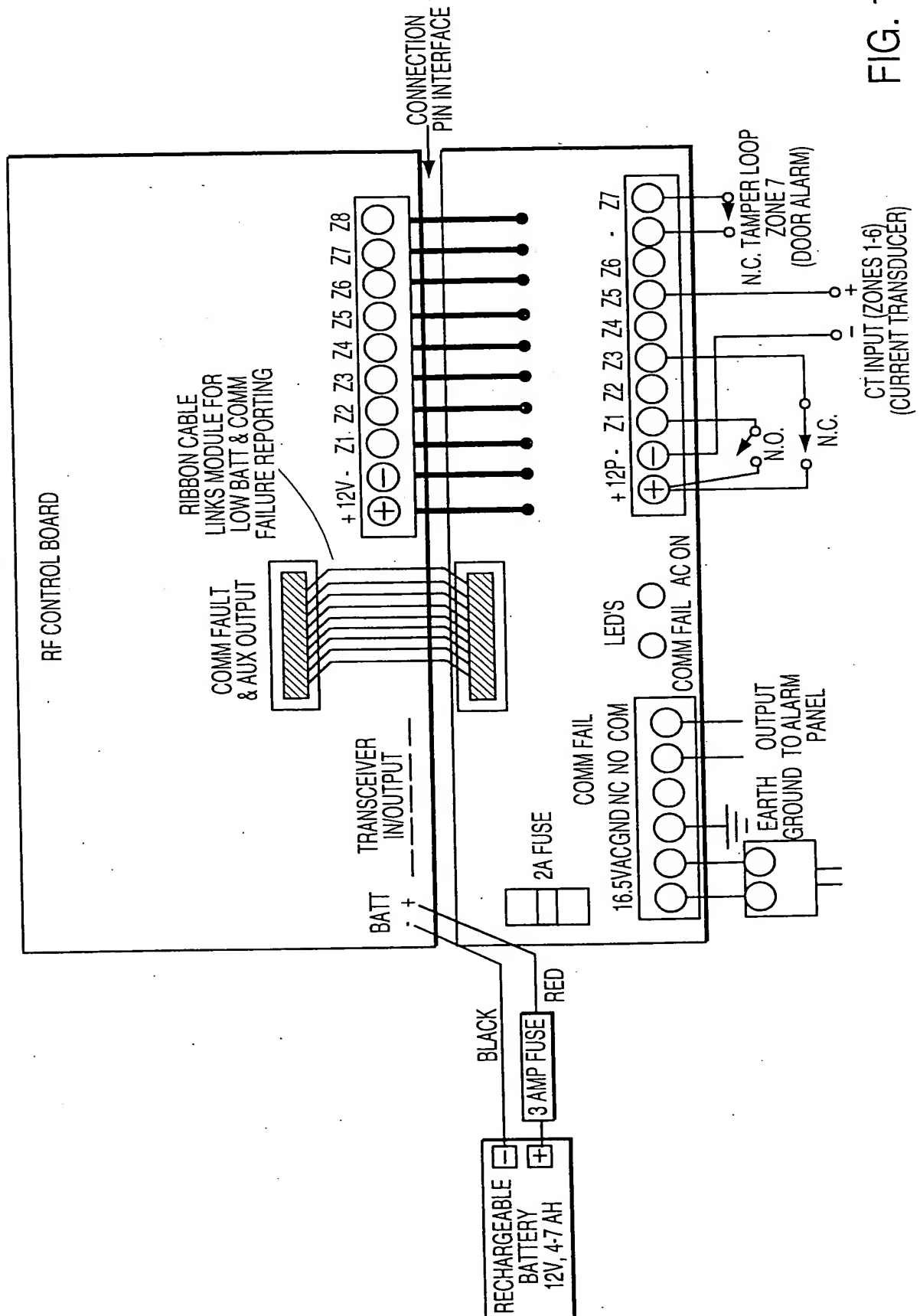
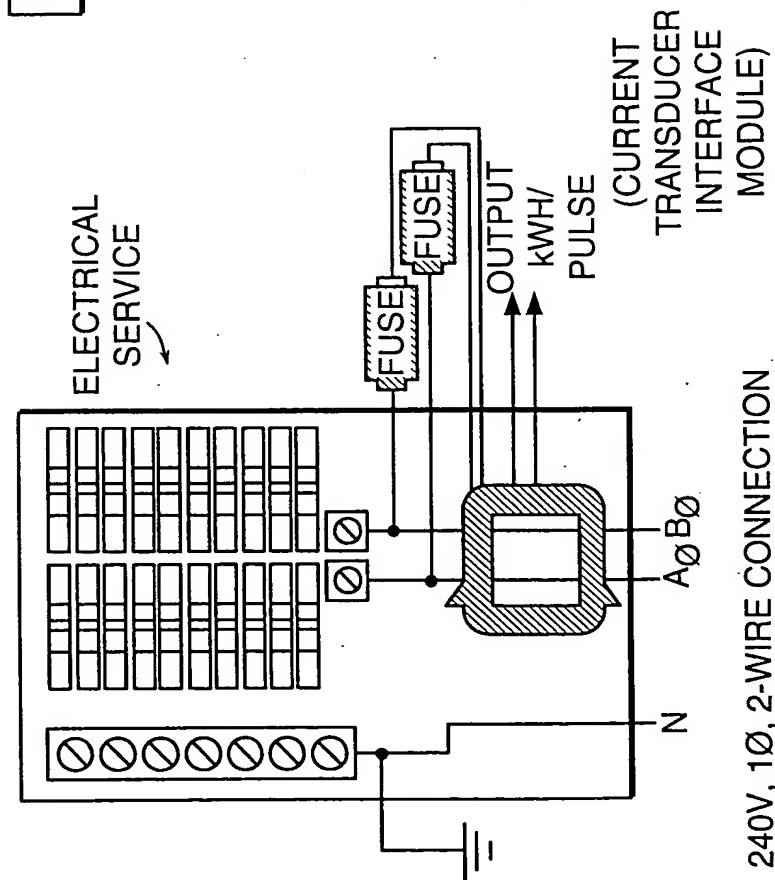


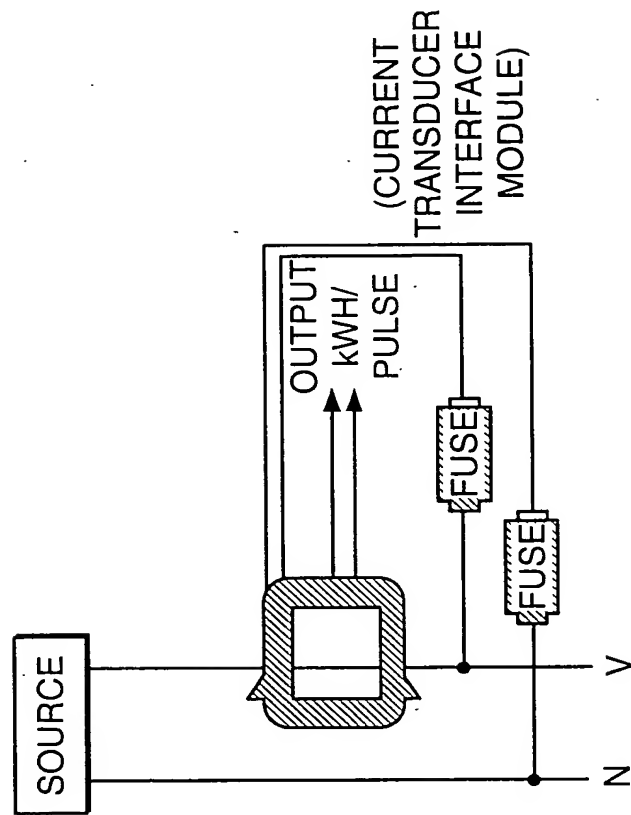
FIG. 10

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CURRENT TRANSDUCER INTERFACE
TO RF MODULE

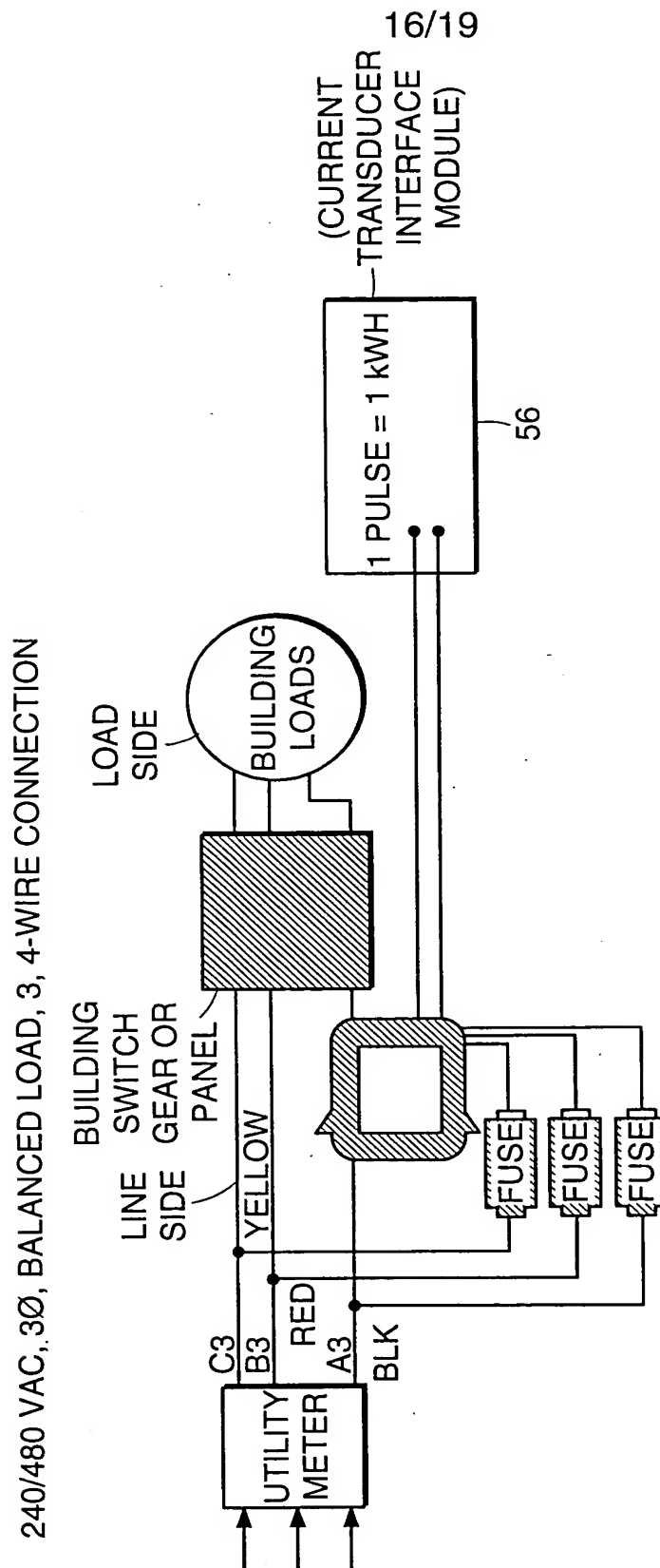
240V, 1Ø, 2-WIRE CONNECTION

FIG. 11A



120V, 1Ø, 2-WIRE CONNECTION

FIG. 11B



SCHEMATICALLY DEMONSTRATE HOW ENERGY DATA OF DIFFERENT ELECTRICAL PHASE TYPES CAN BE INTEGRATED TO THE RF MODULE VIA A PULSE OUTPUT FROM CT TRANSDUCER.

FIG. 11C

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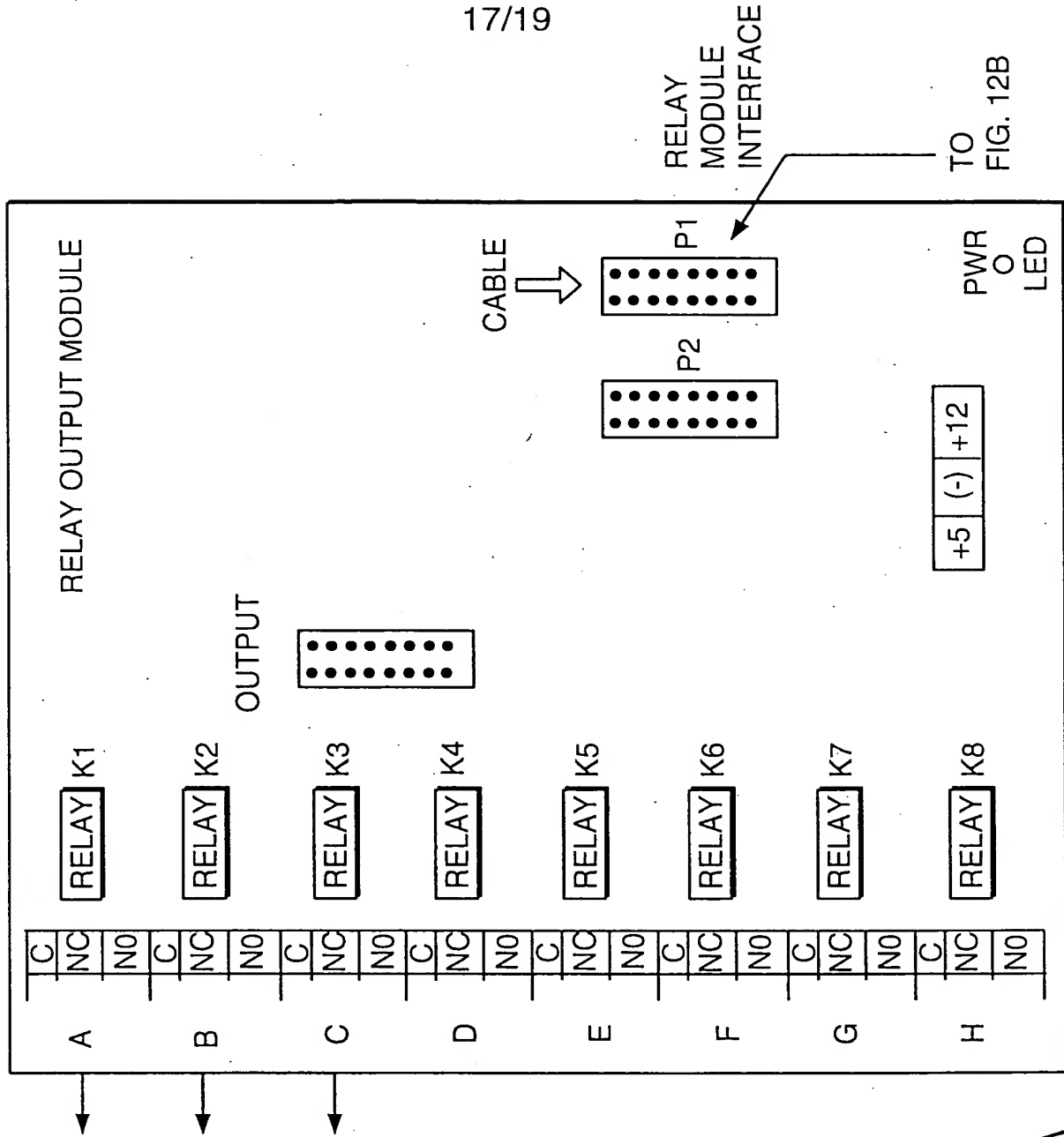
2-WAY RF EQUIPMENT INTERFACE MODULE

FIG. 12A

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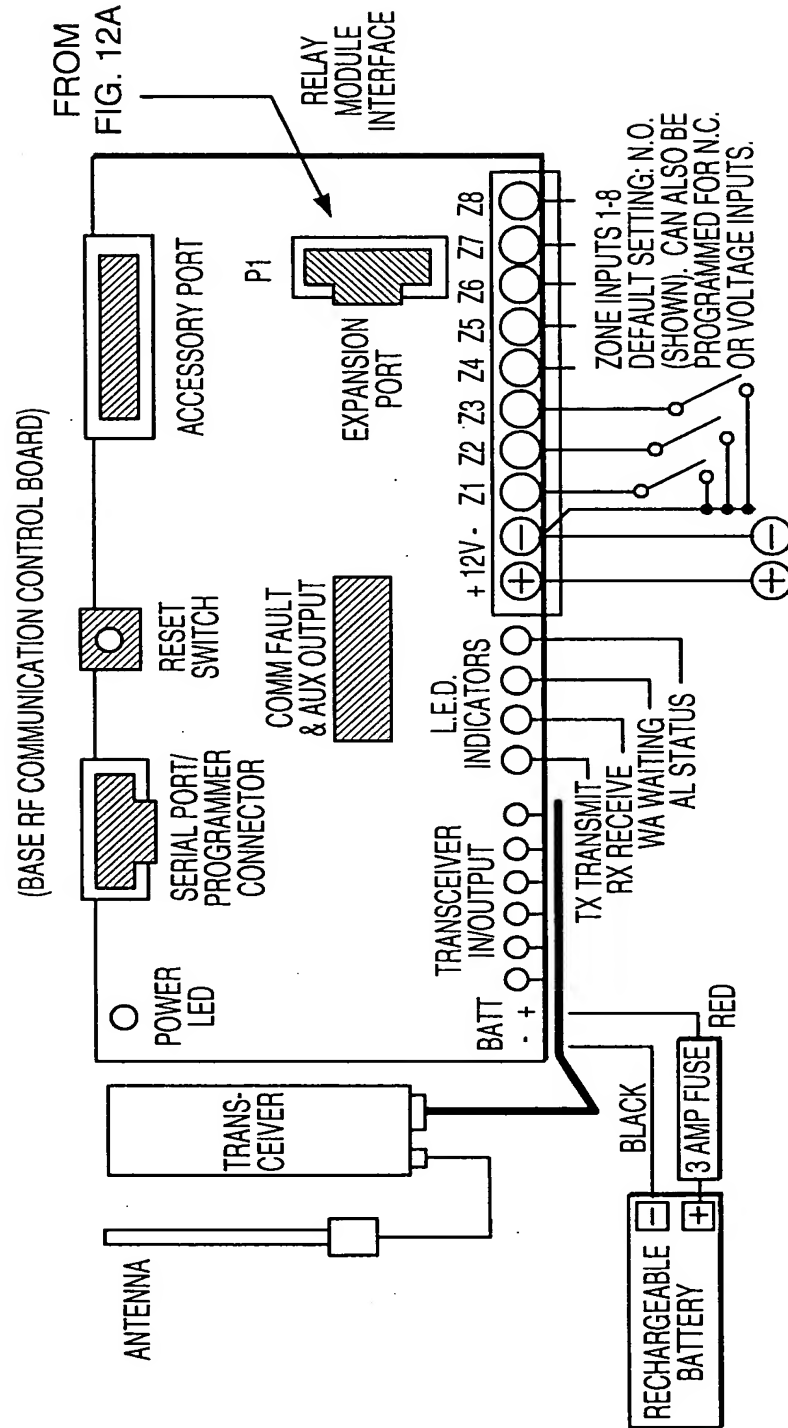
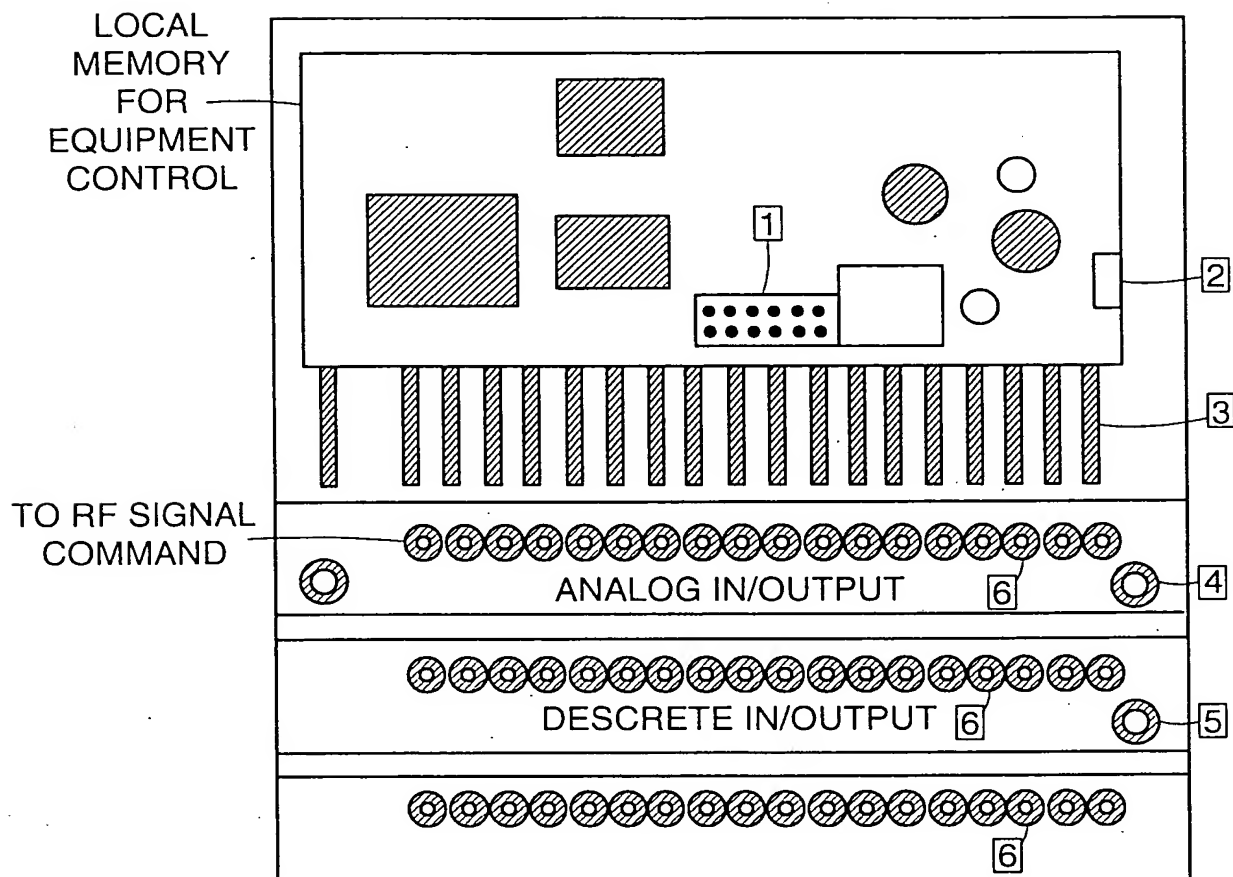


FIG. 12B

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RF INTERFACE TO LOCAL
EQUIPMENT CONTROLLER

LABEL	DESCRIPTION
1	INTERNAL INTERFACE (ATI) CONNECTOR LOCAL LOGIC CONTROLLER
2	GROUND CONTACT FOR THE ADAPTER
3	LED STATUS DISPLAY
4	MOUNTING HOLES FOR PANEL MOUNT
5	GROUNDING SCREW
6	SOCKETS FOR THE TERMINAL CONNECTORS

FIG. 13